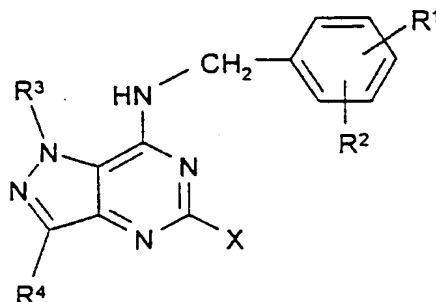


Patent Claims

1. Compounds of the formula I



in which

R¹, R² in each case independently of one another are H, A, OH, OA or Hal,

R¹ and R² together are also alkylene having 3-5 C atoms, -O-CH₂-CH₂-, -CH₂-O-CH₂-, -O-CH₂-O- or -O-CH₂-CH₂-O-,

R³, R⁴ in each case independently of one another are H or A,

X is R⁵, R⁶ or R⁷ monosubstituted by R⁸,

R⁵ is linear or branched alkylene having 1-10 C atoms, in which one or two CH₂ groups can be replaced by -CH=CH- groups, O, S or SO,

R⁶ is cycloalkyl or cycloalkylalkylene having 5-12 C atoms,

R⁷ is phenyl or phenylmethyl,

R⁸ is COOH, COOA, CONH₂, CONHA, CON(A)₂ or CN,

A is alkyl having 1 to 6 C atoms and

contd.
a¹

Hal is F, Cl, Br or I,

and their physiologically acceptable salts and solvates.

2. Compounds of the formula I according to Claim 1

(a) 5-[7-(3-chloro-4-methoxybenzylamino)-1-methyl-3-propyl-1H-pyrazolo[4,3-d]pyrimidin-5-yl]pentanoic acid;

(b) 4-[7-(3-chloro-4-methoxybenzylamino)-1-methyl-3-propyl-1H-pyrazolo[4,3-d]pyrimidin-5-yl]benzoic acid;

(c) 4-[7-(3,4-methylene-dioxy-benzylamino)-1-methyl-3-propyl-1H-pyrazolo[4,3-d]pyrimidin-5-yl]butyric acid;

(d) 5-[7-(benzylamino)-1-methyl-3-propyl-1H-pyrazolo[4,3-d]pyrimidin-5-yl]pentanoic acid

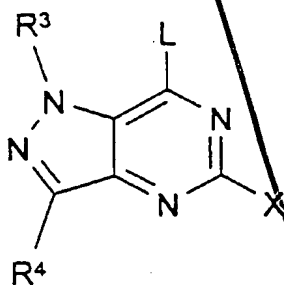
and their physiologically acceptable salts and solvates.

3. Process for the preparation

of compounds of the formula I according to Claim 1 and their salts,

characterized in that

a) a compound of the formula II



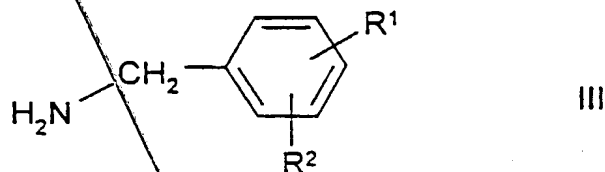
II

contd.
a¹
in which

R³, R⁴ and X have the meanings indicated in
Claim 1,

and L is Cl, Br, OH, SCH₃ or a reactive esterified
OH group,

is reacted with a compound of the formula III



in which

R¹ and R² have the meanings indicated,

or

b) in a compound of the formula I, a radical X is
converted into another radical X by, for example,
hydrolysing an ester group to a COOH group or con-
verting a COOH group into an amide or into a cyano
group

and/or a compound of the formula I is converted
into one of its salts.

4. Process for the production of pharmaceutical
preparations, characterized in that a compound of
the formula I according to Claim 1 and/or one of
its physiologically acceptable salts and solvates
is brought into a suitable dose form together with
at least one solid, liquid or semi-liquid vehicle
or excipient.

contd.
Q¹

5. Pharmaceutical preparation characterized in that it contains at least one compound of the formula I according to Claim 1 and/or one of its physiologically acceptable salts and solvates.

6. Compounds of the formula I according to Claim 1 and their physiologically acceptable salts and solvates for the control of diseases of the cardiovascular system and for the treatment and/or ~~therapy of potency disorders.~~

Sub
B¹

7. Medicaments of the formula I according to Claim 1 and their physiologically acceptable salts and solvates as phosphodiesterase V inhibitors.

Amend.
Q²

8. Use of compounds of the formula I according to Claim 1 and/or their physiologically acceptable salts and solvates for the production of a medicament.

9. Use of compounds of the formula I according to Claim 1 and/or their physiologically acceptable salts and solvates for the production of a medicament for the control of diseases of the cardiovascular system and for the treatment and/or therapy of potency disorders.

add
B¹